

# Lanier Worldwide, Inc.

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# MATERIAL SAFETY DATA SHEET

### Section 1: Chemical Product and Company Information

Toner for 1210, 1240, 1260, 1205 MSDS No. FX-071 Identity: 491-0282 Issued: 02/06/2004 Product ID: Synonyms Supersedes: 08/12/2002

& Common Date: 02/06/2004

Names: Toner for Lanier 1210, 1240, 1260, 1205 Prepared by: Lanier Worldwide, Inc. EH&S Department Fax

(770) 496-9500

Uses: Approved by: Larry Choskey, Manager, EH&S

Lanier 1210, 1240, 1260, 1205 Fax Lanier Worldwide, Inc., Manager, Safety & European Contact: Environment, Walter Fricke, Chemical

Im Taubental D-41468 Neuss, Germany

Mixture +49-2131-387-177

Section 2: Composition / Information on Ingredients				
	PERCENT	CAS No.	EXPOSURE LIMITS	SOURCE
Polyester resin	> 85	Confidential	Not listed	n/a
Carbon black	1 – 5	1333-86-4	3.5 mg/m³, 3.5 mg/m³ 6 mg/m³	OSHA TWA, ACGIH TLV MAK
Polyolefin wax	1 – 5	Confidential	Not listed	N/a
Organic pigment	1 – 5	Confidential	Not listed	N/a
Quaternary ammonium salt *PEL as the product: 15mg/m³ (tot	1-5	Confidential	Not listed	N/a

PEL as the product: 15mg/m³ (total dust), 5mg/m³ (respirable dust) \*TLV as the product: 10mg/m3 (total dust), 5mg/m3 (respirable dust)

## **Section 3: Hazards Identification**

HMIS Rating:

Formula:

FLAMMABILITY = 1 HEALTH = 1 REACTIVITY = 0 SPECIAL = none

Health Hazards (Acute, Chronic, Immediate and Potential): Minimum irritation to respiratory tract may occur as with exposure to any nontoxic dust. May cause gasping if inhaled. Inhalation should be avoided. May cause temporary eye discomfort.

Health Hazards of Long Term exposure (Chronic): A manufacturer sponsored chronic inhalation study in rats using a special test toner revealed there were no lung changes at all in the lowest exposure level (1mg/m³), the most relevant level to potential human exposures. A very slight degree of fibrosis was noted in 25% of the animals at the middle exposure level (4mg/m³), while a slight degree of fibrosis was observed at the highest exposure level (16mg/m³) in all animals. These findings are attributed to "Lung Overloading", a generic response to excessive amount of any dust retained in the lungs for a prolonged interval. The special test toner was ten times more respirable than commercially available toner to comply with EPA testing protocol and would not function properly in Xerographic equipment.

Carbon Black is listed on the IARC Monograph and the Massachusetts Substance List. The IARC has evaluated the evidence for the carcinogenicity of Carbon Black as inadequate to determine a carcinogenic risk for humans.

This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### **Section 4: First Aid Measures**

Remove to fresh air if effects occur. Get medical In case of contact, immediately flush eyes with water for 5 minutes. Get medical attention if Inhalation: attention if needed. Eye Contact:

needed.

Skin Contact: Wash with soap and water. Ingestion: Dilute stomach contents with several glasses

of water. Get medical attention.

### **Section 5: Fire Fighting Measures**

Suitable extinguishing media: CO<sub>2</sub>, dry chemical, foam or water. Extinguishing media which may not be used for safety reasons: none Explosion limits: n/a

This material will burn in case of fire. The decomposition products are CO, CO<sub>2</sub>, and No<sub>x</sub>. Avoid inhalation of smoke.

Special protective equipment for fire fighters: none

LEL: n/a UEL: n/a Page 2 of FX-071

#### Section 6: Accidental Release Measures

Spill / leak Procedures: If spilled, sweep up using an approved toner vacuum with a 0.5 micron filter or smaller, such as the Atrix AAA Toner Vacuum or 3M Toner Vacuum. Use of a vacuum cleaner not rated for toner particles, could result in a fire or personal injury. Remove residue with soap and cold water.

Miscellaneous: Keep product out of sewers and watercourses.

Personal protection: Avoid inhalation of dust.

### Section 7: Handling and Storage

Special Handling: Cleanse skin after contact before breaks or meals, and end of workday.

Special Storage: Avoid direct sunlight. Keep out of reach of children. Store in a cool, dry place.

### **Section 8: Exposure Control and Personal Protection Information:**

Ventilation: Local exhaust

Respiratory Protection: Nuisance dust respirator. Hand Protection: none required under normal use.

Eye Protection: Safety goggles. Skin Protection: Gloves.

## Section 9: Physical and Chemical Properties

CHARACTERISTICS:

Appearance: Black Melting point: 120 - 130°C Powder Vapor pressure: Form: n/a Odor: Faint odor Vapor density: n/a Solubility in Water: Evaporation rate: Negligible n/a Specific gravity: Ignition temp. 450°C 1.2

## Section 10: Stability and Reactivity

Conditions to avoid: Electronic discharge or throwing into fire Materials to avoid: Oxidizing materials Stability: Stable

Hazardous decomposition products: CO and CO2 and other decomposition products when burned.

## Section 11: Toxicological Information:

Acute oral toxicity (rat) LD<sub>50</sub>: Over 5.0 g/kg Acute Inhalation: LC<sub>50</sub> (4H) is in excess of 0.74 g/m<sup>3</sup> (rat)

Mutagenicity: Ames Test result: Negative Dermal: LD50 Over 2.0 g/kg (rat)
Skin sensitizer: None indicated (Guinea-pig) Eye Irritation: Not an irritant (rabbit)

# Section 12: Environmental / Ecological Information

Mobility: No data is available on the adverse effects of this material on the environment.

Persistence/Degradability: No data is available on the adverse effects of this material on the environment.

Bioaccumulation: No data is available on the adverse effects of this material on the environment.

Ecotoxicity: Behavior in Sewage works: No data is available on the adverse effects of this material on the environment.

Aquatic Toxicity: No data is available on the adverse effects of this material on the environment.

Ecological Data (EC) Csb Value (EC): No data is available on the adverse effects of this material on the environment.

AOX-Remark (EC): No data is available on the adverse effects of this material on the environment. BsB5 Value (EC): No data is available on the adverse effects of this material on the environment.

Significant Components (EC): Not applicable

#### **Section 13: Disposal Consideration**

Used Toner should be disposed of under conditions that meet all federal, state and local environmental regulations. Disposal regulations vary from locality to locality; therefore consult your local Lanier office or the EPA to determine the proper method for disposal.

#### **Section 14: Transportation Information**

Special Precautions: None

International Transport Information: UN Classification number: None DOT Identification number: None

Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. On the basis of the data available to us, this product is not a dangerous substance. One should, however, observe the usual precautionary measures for dealing with chemicals.

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Domestic Transportation: n/a Land RID(EC): None ADR(EC): None Inland Waterways ADNR (Rhine R.): None Sea: IMDG: None Air: ICAO-TI:

None IATA-DGR: None

#### Section 15: Regulatory Information

OSHA Hazard Communication Standard, 29 CFR 1910.1200: Not regulated

TSCA: All chemical substances in this product comply with all applicable rules or orders under TSCA

RCRA, 40 CFR 261: Not regulated

NTP Annual Report on Carcinogens: Not listed as a NTP carcinogen

IARC: See Section 11

California Proposition 65: Neither toner, nor any of its components, are listed as chemicals known to the state of California to cause cancer.

**Controlled Products Regulations (Canada):** This product has been classified in accordance with the hazard criteria of the CPR. **Other State Regulations:** Carbon Black is listed in the New Jersey Right To Know List, Pennsylvania Hazardous Substance List and Massachusetts Substance List.

**U.S. / Canada Label Standards:** LOW HAZARD FOR RECOMMENDED HANDLING. Minimize dust generation and accumulation. Use with adequate ventilation.

**EU** Information

Label Information according to Directives 67/548 EEC & 88/379 EEC:

Symbol & Indication: Not required Risk Phase: Not required Safety Advice Phase: Not required **EEC Directive (76/548 EEC, 79/831, 92/32 EEC):** All chemical substances in this product comply with all applicable rules or order under EEC Directive.

## **Section 16: Miscellaneous Information**

**Notice**: Judgments as to the suitability of information contained herein for purchaser's purposes are the purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Lanier Worldwide, Inc. extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use. All materials may present unknown hazards and should be used with caution. Although certain hazards are described within, we do not guarantee that these are the only hazards, which exist.

**References:** IARC (1996) IARC Monographs on the Evaluation of the Carcinogenic Risks of Chemical to Humans, Vol. 65, Printing Processes and Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp. 149-261.

H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J.C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991).

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, Fundamental and Applied Toxicology 17, pp 280-299.

#### Abbreviations:

- (1) OSHA PEL; Permissible Exposure Limit under Occupational Safety and Health Administration. (USA)
- (2) ACGIH TLV; Threshold Limit Value under American Conference of Governmental Industrial Hygienists. (USA)
- (3) DFG-MAK; Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft.
- (4) TWA; Time Weighted Average.
- (5) IARC; International Agency for Research on Cancer.
- (6) NTP; National Toxicology Program. (USA)
- (7) NIOSH; National Institute for Occupational Safety and Health. (USA)
- (8) DOT; Department of Transportation. (USA)